

CLAIMS

1/ A device for injecting an intraocular lens, the device comprising a syringe body (1) in which a piston (2) is mounted, the assembly being suitable for handling in one hand, the device being characterized in that the body (1) is a single piece and comprises a cylindrical portion (3) capable of containing the lens (4) when not deformed, an injection endpiece (6), and a conical intermediate portion (5), and presents no opening, no auxiliary system, such as a cartridge, flap, slide, or removable endpiece, ..., for loading the lens.

2/ A device according to claim 1, characterized in that the syringe body (1) has an internal longitudinal face that is practically plane, the cylindrical portion (3) and the conical intermediate portion (5) having sections that are approximately semicircular.

3/ A device according to claim 1 or claim 2, characterized in that the injection end of the piston comprises a plurality of fingers (10a-10b) of hard plastic material capable of flexing towards one another as the piston moves so as to form a cylinder that occupies practically the entire section of the end of the body (1), while simultaneously pushing the lens.

4/ A device according to claim 3, characterized in that the central finger (10a) bears constantly against the curved inside wall of the syringe body so as to limit the risk of the lens becoming jammed.

5/ A device according to claim 3, characterized in that the central finger (10a) is wedge-shaped and is urged towards the curved wall of the syringe body under the effect of the side fingers (10b) moving towards each other.

6/ A device according to any one of claims 3 to 5,
characterized in that the single finger or central finger
(10a) is extended by a spatula (10c) holding the lens
beside the curved face of the body in the thrust space.

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7/ A device according to any one of claims 1 to 6,
characterized by using sealing gaskets at the guide head
(9) and a stopper closing the end (7) so as to make it
possible for the lens to be packaged directly in
immersion in a liquid.

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8/ A device according to claim 7, characterized by the
use of materials that withstand heat, to enable the
assembly (device plus lens) to be sterilized in an
autoclave.

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